NAME	POSITION TITLE	
TAMAS TOROK (PI)	Staff scientist, ESD, LBNL	

## **Education/Training**

INSTITUTION(S) and LOCATION	DEGREE(s)	YEAR(S)	FIELD(S) OF STUDY
Humboldt University, Berlin, Germany	B.S.	1969	Food Sciences
Humboldt University, Berlin, Germany	M.S.	1971	Food Sciences
University of Szeged, Hungary	Ph.D	1982	Microbiology
Technical University, Budapest, Hungary	M.S. (2 <sup>nd</sup> )	1984	Bioengineering

Research and Professional Experience

2010 - present	Staff scientist, Earth Sciences Division, Ecology Department, Lawrence
•	Berkeley National Laboratory (LBNL)
1997 - 2010	Staff scientist, Life Sciences Division, LBNL
1995 -1997	Scientist, Life Sciences Division, LBNL
1992 - 1995	Senior research associate, Life Sciences Division, LBNL
1988 - 1992	Visiting scientist, USDA Western Regional Research Center, Albany, CA
1974 - 1988	Senior staff scientist, Department of Microbiology, Corvinus University,
	Budapest, Hungary
1971 - 1974	Microbiologist, Center for Food Control and Analysis, Budapest,
Hungary	

## Awards, Memberships, and Volunteering

- "Outstanding Performance Award" LBNL (2010)
- "Excellence in Technology Transfer Award" LBNL (2007)
- "Outstanding Mentor Award" US Department of Energy (2004)
- "Outstanding Performance Award" LBNL (1996)

American Society for Microbiology

Volunteer for Citizens Development Corps (CDC) [assignment in Kosovo in 2002]

## **Selected Publications and Patents**

- **Torok, T.,** R. K. Mortimer, P. Romano, G. Suzzi, and M. Polsinelli. 1996. Quest for wine yeasts An old story revisited. J. Ind. Microbiol. 17:303-313.
- Repin, V. E., **T. Torok**, and M. I. Kuzmin, 2001. The biodiversity of microorganisms from bottom sediments of Lake Baikal by evidence from deep boreholes. Russian Geol. Geophys., 42:231-234
- Andreeva, L.S., M.V. Repina, S.F. Oreshkova, E.I. Ryabchikova, L.I. Puchkova, N.N. Blinova, M.V. Repina, N.I. Pechurkina, **T. Torok**, and V.E. Repin 2005. Genomic and phenotypic analysis of microorganisms isolated from the sediments of Lake Baikal. Microbiology74:709-714.
- Andreeva, L.S., N.I. Pechurkina, O.V. Morozova, E.I. Ryabchikova, S.I. Belikov, L.I. Puchkova, E.K. Emelyanova, **T. Torok**, and V.E. Repin 2007. *Roseomonas baikalica* sp. nov., a new bacterial species isolated from core samples collected by deep-hole drilling at the bottom of Lake Baikal. Microbiology 76:1-8.
- Baker, S.E., Thykaer, J., Adney, W.S., Brettin, T.S., Brockman, F.J., D'Haeseleer, P., Martinez, A.D.,

Miller, R.M., Rokhsar, D.S., Schadt, C.W., **Torok, T.**, Tuskan, G., Bennett, J., Berka, R.M., Briggs, S.P., heitman, J., Taylor, J., Gillian-Turgeon, B., Werner-Washburne, M., and Himmel, M.E. 2008. Fungal genome sequencing and bioenergy. Fungal Biol.Rev., 30:1-5.

Thrash, J.C., Pollock, J., **Torok, T.**, and Coates, J.D. 2009. Description of the novel perchlorate-reducing bacteria *Dechlorobacter hydrogenophilus* gen. nov., sp. nov. and *Propionivibrio militaris* 

sp. nov. Appl Microbiol Biotechnol. 86:335-343.

Thrash, J.C., Ahmadi, S., **Torok, T.,** Coates, J.D. 2010. *Magnetospirillum bellicus* sp. nov., a novel dissimilatory perchlorate-reducing bacterium in the alphaproteobacteria isolated from a bioelectrical reactor. Appl. Environ. Microbiol., 2010 May 21 (Epub ahead of print).

**European patents:** EP1763536(B1) and EP2230247(A2)

**US patents:** US7306946; US7589176(B2); US7598346(B1); US7700832; US7772370(B2); US7825294(B2); and US20100031391(A1)

## **Synergistic Activities**

1995 – 2000 Associate Administrator, Center for Environmental Biotechnology, LBNL 1996 - present Member of the Editorial Board for the Journal of Industrial Microbiology and Biotechnology; reviewer for the journals Enzyme and Microbial Technology, Journal of Histochemistry and Cytochemistry, Aerobiology, Astrobiology, and the ISME Journal **1997 - present** Contributed to or led a variety of projects with regard to microbial diversity, including fate and transport of DNAPLs in fractured rocks; ancient microorganisms isolated from amber; the use of spore protein signature information for the detection of *Bacillus anthracis*; high-throughput screening of plant and microbial extracts for a new class of antibiotics; development of methods for DNA extraction of bacterial endospores; isolation of unique microorganisms and characterization of extremophilic microbial communities from Lake Baikal and Kamchatka in Siberia, Russia, the Caucasus region (Armenia, Azerbaijan, and Georgia); extremely high radiation surviving filamentous fungi from the Chernobyl Exclusion Zone in Ukraine; B. anthracis genotyping in Tajikistan; ultrahigh-throughput genotyping of Salmonella typhi, Yersinia pestis and Francisella tularensis; microbial diversity-based novel crop protection and other biotech products; the DOE-GTL project on protein complexes characterization (PCAP); food safety and probiotics and human health;

Advised undergraduate students (Biotech Partners [formerly Berkeley Biotechnology Education, Inc.] co-op students, and UC Berkeley work-study students) and graduate students (CSU East Bay and Jackson State University, MS), and mentored students and exchange faculty underrepresented in science (Bioremediation Education, Science, and Technology program [DoD], Science Undergraduate Laboratory Internship program [DOE], Faculty and Student Training program [DOE], and Mickey Leland Fellow program [DOE])

**2000 – present** Part-time instructor of microbiology and immunology (California State University East Bay, Hayward, CA); adjunct faculty at Cañada College in Redwood City, CA

2000 – 2009 Chair, Institutional Biosafety Committee (IBC) at LBNL

**2005 – present** Microbiology expert of the IBC at Los Alamos National Laboratory and USDA Western Regional Research Center

**2009 – present** Program manager for DOE's Global Initiatives for Proliferation Prevention (GIPP) program at Berkeley Lab; chair for the GIPP program chem/bio review panel; US expert representative Steering Committee member for three International Science and Technology Center (ISTC) Targeted Initiatives